

SUSQUEHANNA RIVER BASIN

01576000 SUSQUEHANNA RIVER AT MARIETTA, PA

LOCATION.--Lat 40°03'16", long 76°31'52", Lancaster County, Hydrologic Unit 02050306, on left bank 420 ft upstream from Chickies Creek, and 1.0 mi downstream from Marietta. Records include flow of Chickies Creek.

DRAINAGE AREA.--25,990 mi², approximately, includes that of Chickies Creek.

PERIOD OF RECORD.--October 1931 to current year.

REVISED RECORDS.--WSP 781: 1933(M). WSP 1502: 1937.

GAGE.--Water-stage recorder. Datum of gage is 200.56 ft above sea level.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow slightly regulated by 16 flood-control reservoirs which have a combined capacity of 1,599,000 acre-ft. Some diurnal fluctuation below 8,000 ft³/s caused by hydroelectric plant 9.7 mi upstream. Several measurements of water temperature were made during the year. Satellite telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 2, 1889, reached a stage of 58.2 ft, from floodmark, discharge, about 630,000 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43000	8810	50400	22300	13800	217000	63400	51500	46400	33400	11100	9720
2	39600	8630	42000	21800	14200	184000	57300	46600	41000	29300	25600	11800
3	32300	9110	36000	21400	13700	148000	50200	42100	36400	25800	26900	12300
4	28500	9730	31700	20600	15300	122000	47100	38400	32300	23400	26700	11800
5	29200	12100	28700	20400	15100	96800	63200	36200	29500	21500	26100	9120
6	30400	15000	26900	20800	15800	79400	144000	34100	28900	19700	21700	7870
7	26800	14500	25500	24300	16400	68000	145000	32400	34700	18200	19400	7240
8	22800	16500	24600	37600	15400	59500	118000	30300	42100	17400	17000	6900
9	19800	15200	24200	37500	15900	53500	108000	28400	38800	16000	17800	6370
10	20000	14000	24200	33600	15000	47800	117000	26300	34900	14700	17800	6320
11	24400	12600	23600	34100	14700	45600	128000	24300	32600	13400	19000	6150
12	24200	11400	22500	37300	16100	54400	114000	23800	30700	12600	17000	6390
13	22600	10900	21500	41400	16700	70300	96800	38300	29300	11500	14300	11700
14	21000	10300	22800	43600	16800	78000	81700	46000	37000	10800	12400	7950
15	19300	9880	36500	43600	21000	74000	70800	47900	41300	11800	14500	10400
16	18600	9390	52600	39500	36100	65900	63100	55400	50400	13900	13700	10700
17	17800	8980	54200	31400	46200	60800	58000	57700	63300	14900	11800	9690
18	17000	9010	56100	22400	49600	64600	58700	54800	58800	15100	11600	8940
19	15800	9280	52500	20000	50200	70900	70800	47600	53500	14000	11900	11200
20	16300	9210	46000	19900	50300	69500	98900	41800	47800	15300	10700	19600
21	15400	9040	42200	19100	46900	70800	101000	50200	45400	17800	9590	13500
22	14300	9040	40800	18000	44000	117000	97300	73200	52000	16500	8700	10300
23	13200	8980	38600	15800	44000	123000	108000	68500	60200	14300	8420	8970
24	12800	8220	36700	17800	46300	103000	132000	68800	51300	11900	8970	8170
25	11100	9150	34700	18600	50400	89300	132000	86400	47600	10500	7510	7580
26	11700	9680	31200	17700	59700	75900	114000	119000	50100	9610	8040	11600
27	10600	12400	28200	15700	115000	66700	92800	114000	44000	9460	7580	12300
28	10200	30500	27000	e15500	160000	65000	76600	92300	38400	9030	8320	9380
29	9440	62300	25000	15600	209000	63800	65700	74400	38600	8880	8280	8530
30	9350	61300	22900	15000	---	63600	58200	61700	37000	9320	7970	8620
31	8900	---	21800	15200	---	63800	---	55100	---	11100	8310	---
TOTAL	616390	445140	1051600	777500	1243600	2631900	2731600	1667500	1274300	481100	438690	291110
MEAN	19880	14840	33920	25080	42880	84900	91050	53790	42480	15520	14150	9704
MAX	43000	62300	56100	43600	209000	217000	145000	119000	63300	33400	26900	19600
MIN	8900	8220	21500	15000	13700	45600	47100	23800	28900	8880	7510	6150
CFSM	.77	.57	1.31	.97	1.65	3.27	3.50	2.07	1.63	.60	.54	.37
IN.	.88	.64	1.51	1.11	1.78	3.77	3.91	2.39	1.82	.69	.63	.42

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 2000, BY WATER YEAR (WY)

MEAN	17720	29710	39560	40650	45260	76540	79680	48870	28260	15830	12000	12650
MAX	81330	71930	114300	116900	109300	229100	235100	103400	190700	61480	47180	78650
(WY)	1977	1978	1997	1996	1984	1936	1993	1989	1972	1972	1994	1975
MIN	2699	3041	6216	6635	10730	28120	22450	14240	6974	3957	3627	2296
(WY)	1964	1965	1999	1981	1934	1960	1946	1941	1999	1965	1966	1964

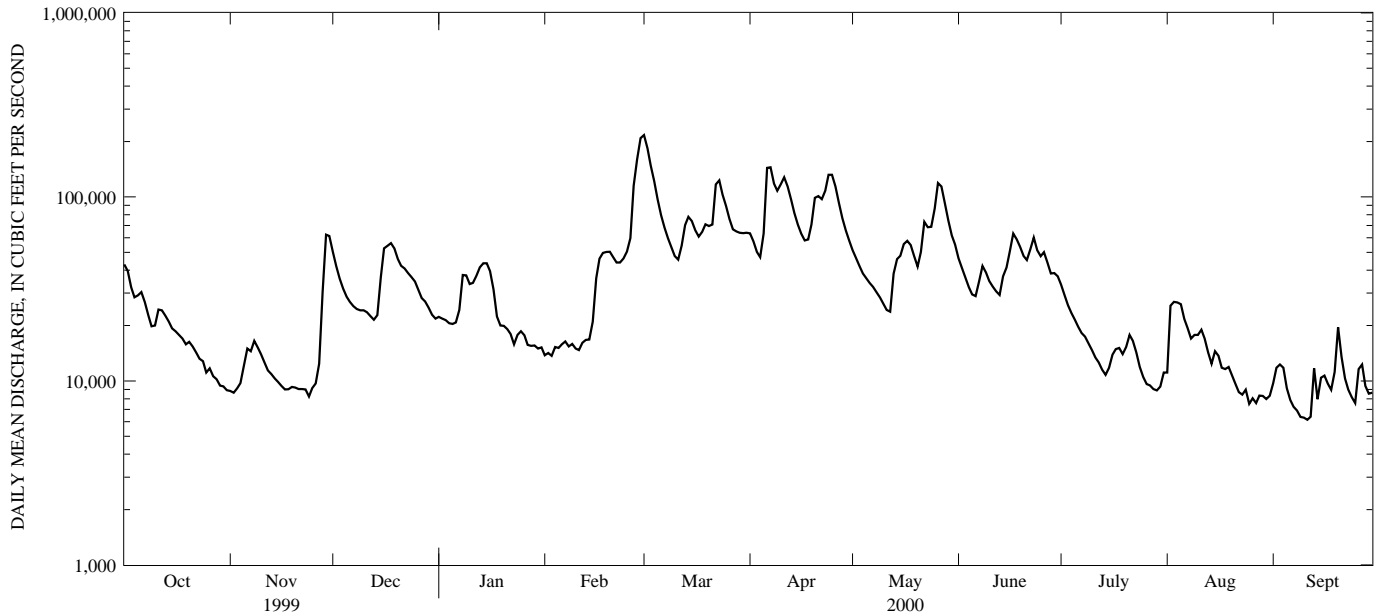
e Estimated.

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01576000 SUSQUEHANNA RIVER AT MARIETTA, PA--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1932 - 2000	
ANNUAL TOTAL	10061290		13650430			
ANNUAL MEAN	27570		37300		37160	
HIGHEST ANNUAL MEAN					59900	
LOWEST ANNUAL MEAN					19060	
HIGHEST DAILY MEAN	232000	Jan 26	217000	Mar 1	1040000	Jun 24 1972
LOWEST DAILY MEAN	2630	Aug 13	6150	Sep 11	1380	Sep 26 1932
ANNUAL SEVEN-DAY MINIMUM	2740	Aug 7	6750	Sep 6	1720	Sep 26 1932
INSTANTANEOUS PEAK FLOW			224000	Feb 29	a1080000	Jun 23 1972
INSTANTANEOUS PEAK STAGE			46.57	Feb 29	b64.54	Jun 23 1972
INSTANTANEOUS LOW FLOW			5990	Sep 11	c618	Sep 26 1932
ANNUAL RUNOFF (CFSM)	1.06		1.44		1.43	
ANNUAL RUNOFF (INCHES)	14.40		19.54		19.43	
10 PERCENT EXCEEDS	61200		76100		84800	
50 PERCENT EXCEEDS	18600		24800		22200	
90 PERCENT EXCEEDS	4940		9120		6000	

- a From rating curve extended above 961,000 ft³/s.
- b From floodmarks.
- c York Haven powerplant shut down to obtain current-meter measurements of low flow.



1-YEAR HYDROGRAPH
OCTOBER 1, 1999 TO SEPTEMBER 30, 2000